

L1 ANSWER 1 OF 1 WPIINDEX (C) 2003 THOMSON DERWENT
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TI Activation of hydroxylic polymers - by reaction with carbonate or chloroformate ester in presence of amine.
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Activation of OH-contg. polymers is effected by reaction with a cpd. (II) selected from carbonate esters of formula RO-CO-OR (IIa) where R is an electron-withdrawing gp. chloroformate esters of formula ClCOOR (IIb) and prods. (IIc) obtd. by reacting COCl₂ with a phenol or N-substd. hydroxylamine. The reaction is effected at 0-100 deg.C in an anhydrous organic solvent in the presence of a 'Supernucleophilic' amine (III) capable of forming reactive acylium salts, and opt. a strongly basic tert amine (IV).

More specifically, (IIa) and (IIb) have R = succinimidyl, phthalimidyl 5-norbornene-2,3-dicarboxyimidyl or p-nitrophenyl. (IIc) is prep'd. by reacting COCl₂ with ROH. (III) is 4-dimethylaminopyridine (DMAP), 4-pyrrolidinopyridine (PPY) N-methylimidazole, diabicyclo (5,4,0) undecene (DBU), 4-morpholinopyridine or diazabicyclo (2,2,2) octane (DABCO). (IV) is NET₃, N-methylmorpholine N,N-dimethylaniline, pyridine, picoline or N-methylpiperidine.